

AMENDMENTS TO THE SPECIFICATION:

Please amend the title as follows:

--METHOD FOR DATA PROCESSING OF INTERPOLATING IN A GRID
OF DISCRETE VALUES--

Page 1, before line 3, insert the following heading:

--BACKGROUND OF THE INVENTION--

Page 2, between lines 17 and 19, insert the following heading:

--SUMMARY OF THE INVENTION--

Page 2, replace the paragraph beginning on line 23 and bridging pages 2 and 3 with the following amended paragraph:

--In order to achieve the stated objective, a method ~~of the type stated in the preamble~~ has the feature according to the invention that in a region round the target value for determining a local minimum and a local maximum is determined of the surrounding source values, that in a region round the target value to be determined a measure for the dynamics of the surrounding source values is determined and that the target value calculated by interpolation is adjusted in the direction of either the local maximum or the local minimum on the basis of the calculated measure for the dynamics of the surrounding source values. Not only is an intermediate value herein determined by interpolation, an analysis is also carried out in the source data in order to define the dynamics or contrast thereof in at least the region where a new target value has to be calculated. On the

basis of the thus determined dynamics the interpolated value is adjusted more or less to the value of a local minimum or maximum. In the case of for instance an already relatively blurred source image, the thus adjusted target value will not differ from the interpolated value, or hardly so, but in the case of a relatively dynamic image with sharp local differences in the source values this adjustment will be capable of shifting the interpolated value considerably toward the local maximum or minimum so that the contrast in the source data is retained to a significant degree. The result T3 of an embodiment of the method according to the invention is illustrated in figures 3 and 6, utilizing the same source image S and expansion factor as in the other figures, and clearly shows the improvement compared to the existing expansion techniques.--

Page 3, delete lines 25-31.

Page 5, between lines 18 and 20, insert the following heading:

--BRIEF DESCRIPTION OF THE DRAWINGS--

Page 5, replace the paragraph beginning on line 20 and bridging pages 5 and 6 with the following amended paragraph:

--The invention will now be further elucidated with reference to an embodiment and an associated drawing. In the drawing:

figure 1 shows the enlargement of a first image based on an existing technique making ~~using~~ use of pixel expansion;

figure 2 shows an enlargement of the first image based on a second existing technique making ~~using~~ use solely of pixel interpolation;

figure 3 shows an enlargement of the first image based on an embodiment of the method according to the present invention;

figure 4 shows the enlargement of a second image based on an existing technique making ~~using~~ use of pixel expansion;

figure 5 shows an enlargement of the second image based on a second existing technique making ~~using~~ use solely of pixel interpolation; [[and]]

figure 6 shows an enlargement of the second image based on the embodiment of the method according to the present invention used in figure 3; and

figure 7 shows a pixel grid on which the method of the present invention is applied.

DESCRIPTION OF THE PREFERRED EMBODIMENTS--